



DARK ENERGY  
SURVEY

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# DES CCD Engineering Run on CTIO 1m telescope

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# DES CCD Engineering Run

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- 7 nights on CTIO/Yale 1m telescope
  - *f*/10 1m telescope
  - 0.3 arcsec per 15  $\mu$ m pixel
    - ~10 arcmin field of view
  - Seeing typically ~1 arcsec
  - Filter wheel with 12 positions
    - Will include u g r i z Y H<sub>2</sub>O
- 9-15 April 2008
  - Just prior to the DES Collaboration meeting



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# CTIO/Yale 1m telescope



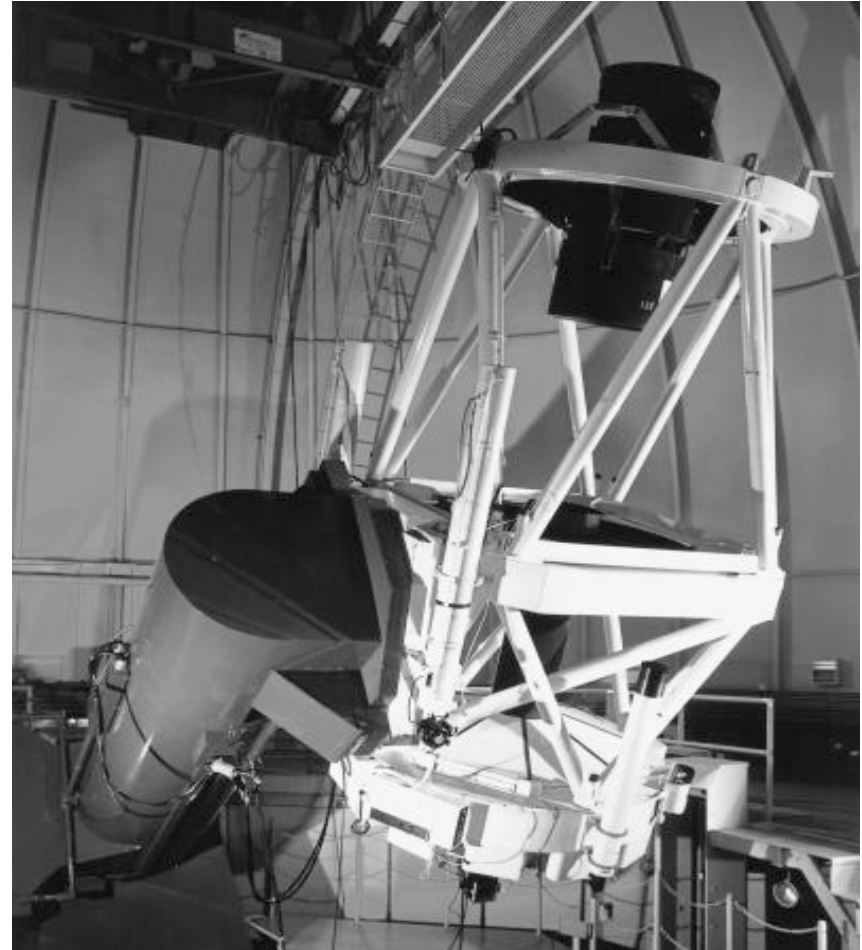


# CTIO/Yale 1m telescope

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- Telescope does not look like this!
- Has an enclosed tube
- Very good stray/scattered light rejection
- Limits image quality though





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# Objectives

- Estimate throughput for ugrizY
  - Check consistency with expected CCD  $q_e$
- Check photometric zero point stability at ugrizY and  $H_2O$ 
  - Compare stability in various filters
  - Check impact of inclusion of 930-950nm region in z, Z, or Y
- Measure sky brightness at ugrizY
  - Moon varies from  $\sim 0.25$  to  $\sim 0.75$  during run
  - Sets around midnight
    - Measurements in dark





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# Pretty Pictures!

